

## INTERNATIONAL SEARCH REPORT

International application No.  
PCT/JP2005/003192

A. CLASSIFICATION OF SUBJECT MATTER  
Int. Cl<sup>7</sup> H01G9/052

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)  
Int. Cl<sup>7</sup> H01G9/052

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched  
Jitsuyo Shinan Koho 1922-1996 Jitsuyo Shinan Toroku Koho 1996-2005  
Kokai Jitsuyo Shinan Koho 1971-2005 Toroku Jitsuyo Shinan Koho 1994-2005

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

| Category* | Citation of document, with indication, where appropriate, of the relevant passages   | Relevant to claim No. |
|-----------|--|-----------------------|
| X         | JP 2001-6977 A (Matsuo Denki Kabushiki Kaisha),<br>12 January, 2001 (12.01.01),<br>Par. Nos. [0011] to [0036]; Fig. 7<br>& US 6467142 B1 & EP 1061537 A2 | 1, 3                  |
| Y         |  | 2, 4-7, 11, 12        |
| A         |  | 8-10                  |
| Y         | JP 2001-57319 A (Sanyo Electric Co., Ltd.),<br>27 February, 2001 (27.02.01),<br>Par. Nos. [0022], [0023]; Figs. 3, 5<br>(Family: none)                   | 2, 7                  |
| A         |  | 8-10                  |

Further documents are listed in the continuation of Box C.

See patent family annex.

- \* Special categories of cited documents:
- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier application or patent but published on or after the international filing date
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Date of the actual completion of the international search  
12 May, 2005 (12.05.05)

Date of mailing of the international search report  
31 May, 2005 (31.05.05)

Name and mailing address of the ISA/  
Japanese Patent Office

Authorized officer

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## C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

| Category* | Citation of document, with indication, where appropriate, of the relevant passages   | Relevant to claim No. |
|-----------|--|-----------------------|
| Y<br>A    | Microfilm of the specification and drawings annexed to the request of Japanese Utility Model Application No. 118318/1975 (Laid-open No. 31840/1977) (Matsushita Electric Industrial Co., Ltd.), 05 March, 1977 (05.03.77), Page 2, line 9 to page 5, line 3; Figs. 3 to 8 (Family: none) | 4<br>8-10             |
| Y<br>A    | JP 2003-101311 A (NEC Corp.), 04 April, 2003 (04.04.03), Par. Nos. [0056] to [0063]; Fig. 3 & US 2003-53286 A1 & US 2004-105218 A1 & DE 10243795 A & CN 1411144 A  | 5-7<br>8-10           |
| Y<br>A    | JP 2003-347163 A (Rohm Co., Ltd.), 05 December, 2003 (05.12.03), Full text; Figs. 1 to 20 & US 2003-223180 A1 & CN 1462047 A   | 8-10                  |
| Y<br>A    | JP 2000-12387 A (Matsushita Electric Industrial Co., Ltd.), 14 January, 2000 (14.01.00), Par. No. [0040] (Family: none)  | 11, 12<br>8-10        |